

In the Claims:

1-28 (cancelled)

29. (new) A controller device comprising:

a Hardware component comprising of a processing means that uses an operative system that runs an application, said application made of a plurality of micro-objects from a micro-object library stored on a memory means and based on the native programming instruction and hardware resources of controller, said library containing several types of micro-objects, each one with its own methods and capabilities to establish execution relations with other micro-objects, a memory means, an Input/Output means and a communication means; a Monitoring Graphics User Interface which is contain on a computer processing means, interfacing between the processing means and to a plurality of hardware through said micro-objects; a network adapter that receives from and sends data to said plurality of hardware through said hardware's communication means using said micro-objects; where said communication from the hardware to the network adapter consists of a send and receive function with a logical ID being assigned to each hardware and the send function using four parameters: Service, whether an acknowledgement is needed; Destination hardware; Source hardware; and Length, which is the length of the data packet to be communicated and where the Send/Receive functions are protocol-independent and translate into any protocol necessary by the interface between the controller layer and the network layer by said processing means using said micro-objects.

30. (new) A method of using a controller device comprising:

having hardware comprising of a processing means using an operative system that runs an application, said application made of a plurality of micro-objects from a micro-object library stored on a memory means and based on the native programming instruction and hardware resources of controller, said library containing several types of micro-objects, each one with its own methods and capabilities to establish execution relations with other micro-objects, a memory means, an Input/Output means and a communication means; having a

Monitoring Graphics User Interface which is contain on a computer processing means and interfacing to said processing means and a plurality of hardware through said micro-objects; having a network adapter that receives from and sends data to a plurality of hardware through said hardware's communication means using said micro-objects; having said monitoring having the communication from the hardware to the network adapter consisting of a send and receive function with assigning a logical ID being to each hardware and the send function using four parameters; Service, whether an acknowledgement is needed; Destination hardware; Source hardware; and Length, which is the length of the data packet to be communicated and where the Send/Receive functions are protocol-independent and translating into any protocol necessary by the interface between the controller layer and the network layer.